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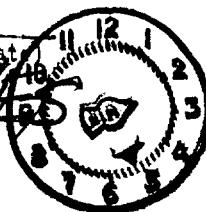
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(Person authorizing classification and date)

By AEC GR552 (SIFOLER) (Person making the change and date)

*Mary Joe Trepert*

MAR 1 1954

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54-36

FOR JOHN C BUGNER DIRECTOR DIVISION OF BIOLOGY AND MEDICINE CHM  
 INFO NORRIS BRADEBURY CHM. JIG DIVISION FILES CHM W M LANGHAN CHM  
 FROM THOMAS L SHIPMAN MD HEALTH DIVISION LEADER PD WE HAVE LOCAL  
 APPROVAL FOR FOLLOWING PROPOSAL CLM TO COLLECT AND ANALYZE URINE  
 SAMPLES FROM NATIVES AND AIR WEATHER SERVICE PERSONNEL PD REASONS CLM  
 TO CORRELATE WITH DATA COLLECTED AT GREENHOUSE AND UK ON MICE AND  
 MONKEYS IN DETERMINING THE RELATIVE EXTERNAL AND INTERNAL HAZARDS OF  
 RADIOACTIVE DEBRIS FROM ATOMIC BOMBS PD IN VIEW OF THE EXTENSIVE  
 EXPERIENCE OF THIS LABORATORY IN METHODOLOGY OF THIS PROBLEM AND THE  
 AVAILABILITY OF TRAINED PERSONNEL AND FACILITIES PLUS LIAISON WITH THE  
 RADIOCHEMICAL GROUP OF THE TEST DIVISION CHM IT WAS BELIEVED THAT A  
 MAXIMUM OF INFORMATION CAN BE ACCUMULATED WITH A MINIMUM OF EFFORT  
 PD IN VIEW OF THE CLOSE SIMILARITY OF THIS SITUATION TO THE CONTEMPLATED  
 PROBLEMS IN OPERATION GABRIEL AN INTENSIVE EFFORT TO OBTAIN ALL  
 POSSIBLE DATA SEEMED JUSTIFIED PD PROPOSED EXPERIMENTS CLM ONE PD  
 URINE COLLECTION PD ABEL PD TWO CONSECUTIVE TWO FOUR HOUR URINE SAMPLES  
 WILL BE COLLECTED FROM EACH OF THE AIR WEATHER SERVICE PERSONNEL  
 INVOLVED PD END OF PAGE ONE

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BAKER PD TWO CONSECUTIVE TWO FOUR HOUR POOLED URINE SAMPLES WILL BE COLLECTED FROM ABLE GROUP OF EXPOSED NATIVES PD IT IS DESIRED TO HAVE A TOTAL VOLUME OF TEN LITERS PER SAMPLE PD TWO PD URINE ANALYSIS PD ABLE PD ANALYSIS FOR BARIUM LANTHANUM AT THIS TIME PD THESE NUCLIDES ARE THE MOST ABUNDANT OF THE FISSION PRODUCTS PD THE CHEMICAL METHOD IS STANDARD AT THIS LABORATORY AND FORTUNATELY THESE NUCLIDES ARE VERY IMPORTANT FROM THE POINT OF VIEW OF INTERNAL HAZARD PD BAKER PD ANALYSIS FOR PLUTONIUM PD THE METHOD IS STANDARD PD PU IS VERY IMPORTANT IN ANY CONSIDERATION OF INTERNAL HAZARD PD FROM BOTH OF THESE MEASUREMENTS AND FROM DATA FROM THE RADIOCHEMICAL GROUP INFORMATION CAN BE PUT IN TERMS OF BOMB FRACTION PD CHARLIE PD ON THE BASIS OF THE ABOVE DATA FURTHER ANALYSES CAN BE MADE OBTAINING INFORMATION ON FRACTIONATION AND UPTAKE PD THESE WOULD POSSIBLY INCLUDE MOLOBDENUM AND CERTAINLY AT LATER TIMES CMM STRONTIUM PD BOG PD A SPOT ANALYSIS FOR GROSS FISSION PRODUCT ACTIVITY WOULD BE MADE BY THE USE OF THE ARM COUNTER BY PLACING THE ENTIRE URINE SAMPLE IN THE COUNTER PD ONE MAN WILL BE SENT WITH END OF PAGE TWO

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NECESSARY EQUIPMENT TO KWAJALEIN TO MAKE THE URINE COLLECTION AND TO COURIER THE SAMPLES BACK TO LOS ALAMOS PD IT IS IMPERATIVE THAT THIS INDIVIDUAL HAVE AUTHORITY TO MAKE SUCH COLLECTIONS FOR THE PURPOSES NOTED ABOVE AND TO HAVE FULL SUPERVISION OVER THE COLLECTION PD IT IS NECESSARY BECAUSE OF TIME SINCE EXPOSURE CAN RADIOACTIVE DECAY AND EXCRETION RATES THAT THE COLLECTION BE DONE AS SOON AS POSSIBLE PD IT IS PREFERRED THAT THE SAMPLES BE BACK AT LOS ALAMOS BY THE SEVENTEENTH OF MARCH TO START ANALYSIS OPD WE WOULD ALSO LIKE YOUR BLESSING ON THIS PROJECT AND REQUEST THAT YOU ADVISE KRONKITE OF YOUR APPROVAL OF THIS PROJECT PD WITH HIS COLLABORATION IN OBTAINING THE SAMPLES WE SHOULD NOT INTERFERE ANY FURTHER WITH HIS WORK ALTHOUGH WE WOULD BE HAPPY TO OFFER HIM ANY ASSISTANCE THAT MIGHT BE REQUIRED PD PAYNE HARRIS AND ITEM EXPECT TO LEAVE FOR KWAJALEIN ABOUT THE END OF THE WEEK PD REF CLN ONE ZERO NINE PD END OF MESSAGE

CCC SIXTH WORD SEVENTH TO LAST LINE SHUD READ PD RPT PD

11/0313Z

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